

SUPPLY OF 2K FIRMWARE IN 4K EPROMS

It has lately become increasingly difficult for us to obtain the 2K EPROMs which are used for the 2K firmware in the Interak System. Our long term solution to the problems which result is to alter the boards appropriately so that they can take much larger EPROMs, which of course may be left partially empty.

In the short term however we can use type 2532 4K EPROMs, which are the same physical size as the original 2K EPROMs, and leave them half empty. The pinouts of the 2532 and the 2K EPROMs are substantially the same, so much so in fact that you can often plug in a 2532 without making any modifications to the boards - the 4K EPROM will appear to contain just 2K of program or data.

There is only one area where further discussion is necessary and that is at the site of the character generator EPROMs for the VDU-K board. The VDU-K design provides for two character generator EPROM sockets - one 2K socket for the main character set EPROM and an empty 2K socket which later could take an EPROM with a character set defined by the user, ie the "Applications Character Set".

An alternative option built into the design of the VDU-K is that in place of the 2 x 2K EPROMs mentioned, a single 4K EPROM can be used instead, plugged into the main character generator socket. This is the alternative which you should use if we have supplied you with the 2532 4K EPROM. When the time comes to add "applications" characters they can simply be programmed into the empty space in the existing 4K EPROM; this will save you the expense of purchasing an additional EPROM for the purpose. Note that when a 4K EPROM is used in the main character generator socket, the remaining socket must remain vacant at all times.

Therefore, as indicated above, you need make no immediate changes to install the type 2532 4K EPROMs in places where the 2K was used before in this system.

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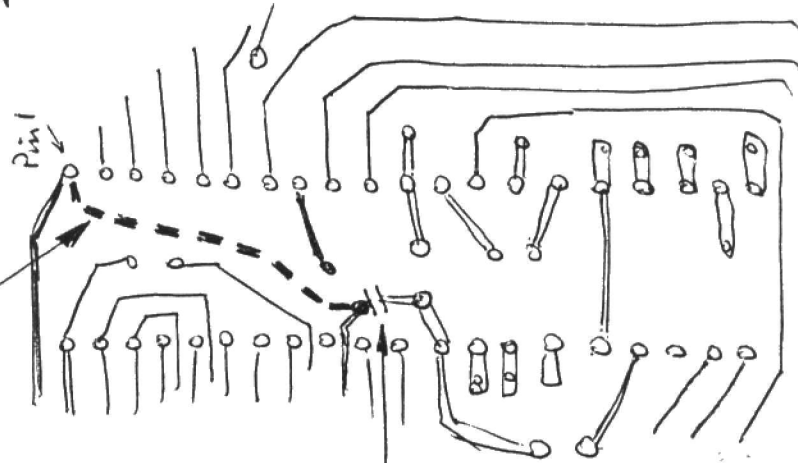
Modification suggested by Wolf Schroeder

8/10/84

Add new wire—
shown dotted

1. Cut track from pin 18 of the EPROM socket to the (capacitor) through connection underneath the Z80 chip
2. Connect pin 1 of Z80 to pin 18 of the EPROM socket.
3. Insert 2532 into EPROM socket.

Note: After the mod is made there is no need to reinstate the original circuit when using the original 2716, but in that case any attempt to access the EPROM at E800 and EFFF will cause it to be deselected.



Break
track here—

VIEW ON A SIDE OF
MZB-3 CARD

10/2/85 DMF

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Conversion of Kemtron MZB-3
board for 2716/2532 Use.